



Fork sensors WF, WF Standard

WF225-B4150



Model Name > **WF225-B4150**
Part No. > **6022139**



Illustration may differ

At a glance

- Infrared light source
- Simple and accurate adjustment via teach-in or manually via "+"/"-" buttons
- Fast response time (max. 100 µs)
- PNP and NPN switching output
- Light/dark switching function
- 21 different models with different fork widths and depths
- Rugged, IP 65 aluminum housing

Your benefits

- Fast response time and fine resolution ensure reliable detection even at high speeds
- Infrared light source provides excellent ambient light immunity
- User friendly setting via teach-in or "+"/"-" button
- A wide range of different fork sizes enables flexible installation
- The aluminum housing meets all requirements for use in harsh industrial conditions



Features

Functional principle:	Optical detection principle
Fork width:	225 mm
Fork depth:	60 mm
Label detection:	-
Light source ¹⁾ :	LED
Type of light:	Infrared light
Output function:	Light/darkswitching, adjustable via reverse polarity
Housing design (light emission):	Fork shaped

¹⁾ Continuous

Mechanics/electronics

Residual ripple ¹⁾ :	< 10 %
Power consumption ²⁾ :	40 mA
Switching frequency ³⁾ :	0.5 kHz
Response time ⁴⁾ :	1 µs
Output type:	NPN: HIGH = approx. VS / LOW ≤ 2 V PNP: HIGH = VS- ≤ 2 V / LOW approx. 0 V
Switching mode:	PNP/NPN (Push/ Pull)

Output current I _{max} .:	100 mA
Electrical connection:	Connector M8, 4-pin
Protection class ⁵⁾ :	III
Circuit protection:	Output Q short-circuit protected Interference suppression
Enclosure rating:	IP 65
Weight:	Ca. 36 g ... 160 g ⁶⁾
Housing material:	Aluminum, Metal
Teach-in:	0
Supply voltage:	10 V DC ... 30 V DC ⁷⁾
Ambient light immunity:	Incandescent lamp: ≤ 3,000 klx
Fieldbus interface:	-

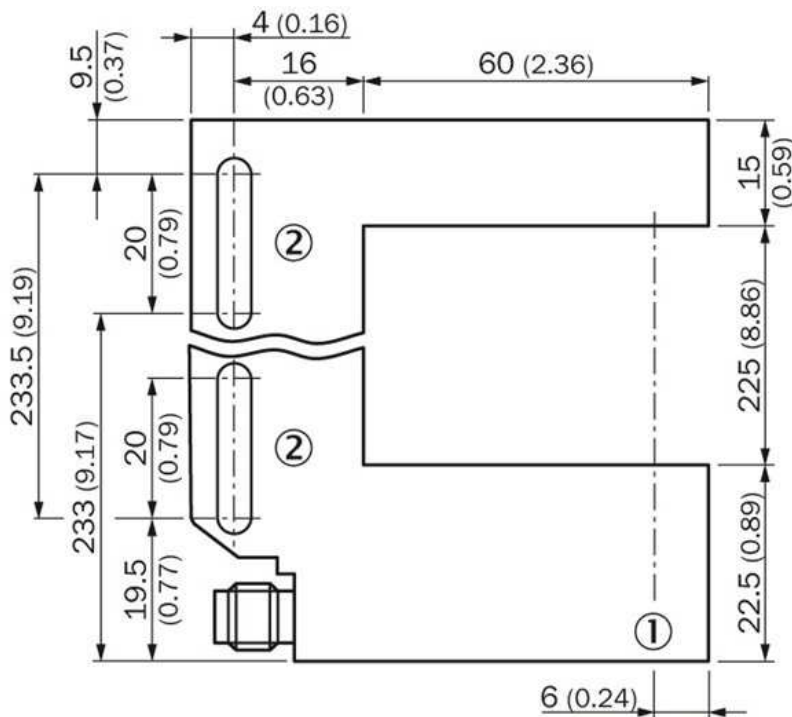
1) May not exceed or fall short of V_S tolerances 2) Without load 3) With light/dark ratio 1:1, no time delay 4) Signal transit time with resistive load 5) Reference voltage DC 50 V ⁶⁾ Depending on fork width ⁷⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A

Ambient data

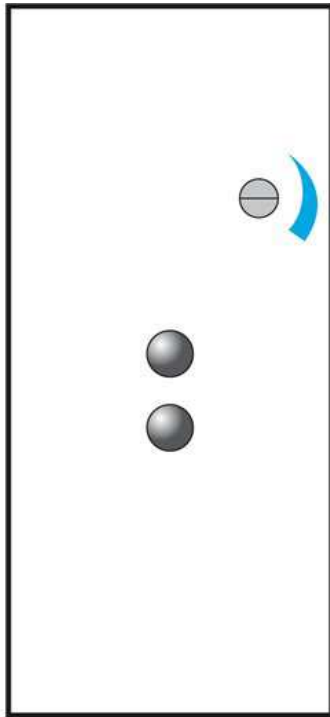
Shock load:	According to EN 60068-2-27
UL File No.:	NRKH.E191603
Ambient temperature operation:	-20 °C ... +60 °C ¹⁾
Ambient storage temperature:	-20 °C ... +80 °C

¹⁾ Do not bend below 0 °C

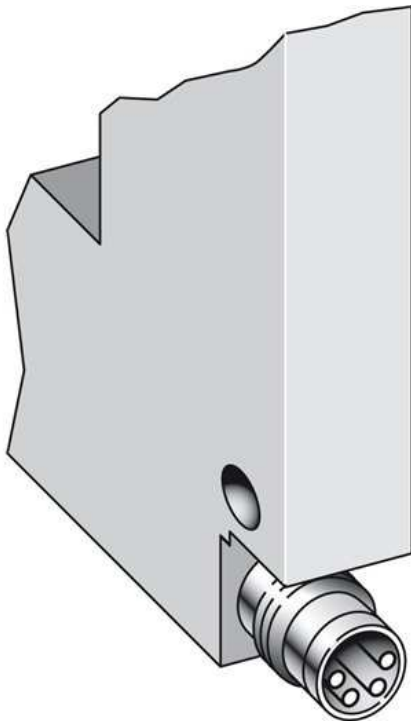
Dimensional drawing



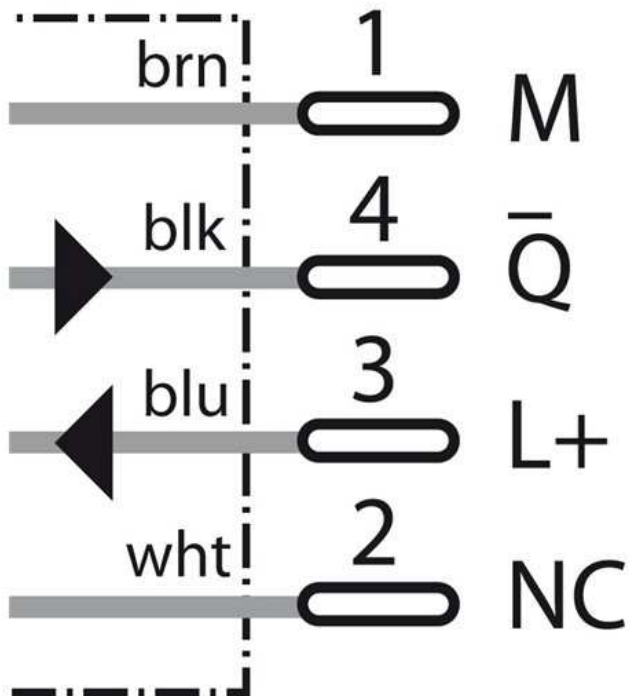
Adjustments



Connection type



Connection diagram



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